

What is claimed is:

1. An AV information delivery device comprising:
a storage section for storing AV information including
at least one of voice information and video information;
an abstracting section for abstracting at least a part
of the stored AV information, and generating abstraction
information indicative of contents of the AV information; and
a delivery section for delivering the generated
abstraction information together with the AV information having
the contents indicated by the abstraction information.

2. The AV information delivery device according to
claim 1, wherein the abstracting section generates a data string
indicative of a voice or sound included in the voice information
as the abstraction information.

3. The AV information delivery device according to
claim 1, wherein the abstracting section generates pattern data
having a waveform featuring the video information as the
abstraction information.

4. The AV information delivery device according to
claim 1, wherein the delivery section delivers the generated
abstraction information with an inclusion in a separate
information unit from an information unit, the information unit

including the AV information having the contents indicated by the abstraction information.

5. The AV information delivery device according to claim 1, wherein the delivery section replaces, with the abstraction information, a part of an information unit including the AV information having the contents indicated by the generated abstraction information; and

the delivery section delivers the abstraction information.

6. The AV information delivery device according to claim 1, wherein the delivery section buries the abstraction information in the video information in an information unit including the AV information having the contents indicated by the generated abstraction information; and

the delivery section delivers the abstraction information.

7. The AV information delivery device according to claim 1, wherein the delivery section includes the abstraction information in an outside of a valid display range in the video information included in an information unit containing the AV information having the contents indicated by the generated abstraction information; and

the delivery section delivers the abstraction information.

8. An AV information retrieving device retrieving the AV information in the data base in the AV information delivery device according to claim 1 by using retrieval key information, comprising:

an acquiring section for acquiring the abstraction information delivered and the AV information delivered;

an input section for inputting the retrieval key information;

an abstracting section for abstracting the retrieval key information inputted and generating abstraction key information; and

a retrieving section for retrieving the delivered abstraction information which is similar to the generated abstraction key information.

9. The AV information retrieving device according to claim 8, further comprising an output section for outputting the AV information corresponding to the abstraction information retrieved by the retrieving section as the AV information corresponding to the retrieval key information.

10. The AV information retrieving device according to

claim 8, further comprising a return section for returning, to the AV information delivery device, retrieval result information generated based on a retrieval result obtained by the retrieving section.

11. The AV information retrieving device according to claim 10, wherein the retrieval result information comprises:

the retrieval key information;

content identification data for specifying contents including at least the abstraction information set to be similar to the retrieval key information by the retrieving section and the AV information corresponding to the abstraction information; and

at least one of address information and time information which indicate a portion similar to the retrieval key information in the contents.

12. The AV information retrieving device according to claim 10, further comprising a network retrieving section for retrieving network information present on a network which corresponds to the retrieval key information,

wherein the network information retrieved is included in the retrieval result information and returned to the AV information delivery device through the return section.

13. An AV information delivery device comprising a data base for storing the retrieval result information returned from the AV information retrieving device according to claim 10.

14. The AV information delivery device according to claim 13, wherein the retrieval result information comprises:

the retrieval key information;

content identification data for specifying contents including at least the abstraction information set to be similar to the retrieval key information by the retrieving section and the AV information corresponding to the abstraction information; and

at least one of address information and time information which indicate a portion similar to the retrieval key information in the contents, and

the data base stores the retrieval key information, the content identification data and at least one of the address information and the time information correspondingly to each other.

15. An AV information delivery device comprising a data base for storing the retrieval key information, the content identification data, at least one of the address information and the time information and the network information which are included in the retrieval result information returned from the

AV information retrieving device according to claim 12 correspondingly to each other.

16. The AV information delivery device according to claim 14, wherein the data base decides a degree of correlation of the retrieval key information and the content identification data in a majority principle intended for all the retrieval result information and stores only the retrieval result information having the high degree of correlation.

17. An AV information retrieving device for retrieving the AV information in the data base in the AV information delivery device according to any of claims 13 to 16 by using data base retrieval information, comprising:

an input section for inputting the data base retrieval information;

a retrieving section for retrieving an inside of the data base by using the input data base retrieval information and retrieving the AV information corresponding to the input data base retrieval information; and

an output section for outputting the retrieved AV information as the AV information corresponding to the data base retrieval information.

18. An AV information delivery retrieving system

comprising:

an AV information delivery device; and

an AV information retrieving device,

wherein the AV information delivery device comprising:

a storage section for storing AV information including

at least one of voice information and video information;

an abstracting section for abstracting at least a part of the stored AV information, and generating abstraction information indicative of contents of the AV information; and

a delivery section for delivering the generated abstraction information together with the AV information having the contents indicated by the abstraction information,

wherein the AV information retrieving device retrieves the AV information in the data base in the AV information delivery device by using retrieval key information, the AV information retrieving device comprising:

an acquiring section for acquiring the abstraction information delivered and the AV information delivered;

an input section for inputting the retrieval key information;

an abstracting section for abstracting the retrieval key information inputted and generating abstraction key information; and

a retrieving section for retrieving the delivered abstraction information which is similar to the generated

abstraction key information.

19. An AV information delivery method comprising the steps of:

abstracting at least a part of AV information including at least one of voice information and video information;

generating abstraction information indicative of contents of the AV information; and

delivering the generated abstraction information together with the AV information having the contents indicated by the abstraction information.

20. An AV information retrieving method of retrieving the AV information delivered together with the abstraction information by the AV information delivery method according to claim 19 by using retrieval key information, comprising the steps of:

acquiring the abstraction information delivered and the AV information delivered;

inputting the retrieval key information;

abstracting the retrieval key information thus input and generating abstraction key information; and

retrieving the delivered abstraction information which is similar to the generated abstraction key information.

21. The AV information retrieving method according to claim 20, further comprising an output step of outputting the AV information corresponding to the abstraction information retrieved at the retrieving step as the AV information corresponding to the retrieval key information.

22. The AV information retrieving method according to claim 20, further comprising a return step of returning retrieval result information generated based on a retrieval result obtained at the retrieving step.

23. The AV information retrieving method according to claim 22, wherein the retrieval result information comprises:

the retrieval key information;

content identification data for specifying contents including at least the abstraction information set to be similar to the retrieval key information by the retrieving section and the AV information corresponding to the abstraction information; and

at least one of address information and time information which indicate a portion similar to the retrieval key information in the contents.

24. The AV information retrieving method according to claim 22, further comprising a network retrieving step of

retrieving network information present on a network which corresponds to the retrieval key information,

the network information thus retrieved being included in the retrieval result information and being returned at the returning step.

25. The AV information delivery method comprising a data base step of storing the retrieval result information returned by the AV information retrieving method according to claim 22.

26. The AV information delivery method according to claim 25, wherein the retrieval result information comprises:

the retrieval key information;

content identification data for specifying contents including at least the abstraction information set to be similar to the retrieval key information at the retrieving step and the AV information corresponding to the abstraction information; and

at least one of address information and time information which indicate a portion similar to the retrieval key information in the contents, and

the retrieval key information, the content identification data and at least one of the address information and the time information are stored correspondingly to each other at the data base step.

27. The AV information delivery method comprising a data base step of storing the retrieval key information, the content identification data, at least one of the address information and the time information and the network information which are included in the retrieval result information returned by the AV information retrieving method according to claim 24 correspondingly to each other.

28. The AV information delivery method according to claim 26, wherein a degree of correlation of the retrieval key information and the content identification data is decided in a majority principle intended for all the retrieval result information and only the retrieval result information having the high degree of correlation is stored at the data base step.

29. An AV information retrieving method of retrieving the AV information stored by the AV information delivery method according to claim 25 by using data base retrieval information, comprising the steps of:

inputting the data base retrieval information;
retrieving an inside of the data base by using the input database retrieval information and retrieving the AV information corresponding to the input data base retrieval information; and
outputting the retrieved AV information as the AV

information corresponding to the data base retrieval information.

30. An information recording medium recording an AV information delivery program to be readable through a delivery computer included in an AV information delivery device containing a storage section for storing AV information including at least one of voice information and video information, wherein the delivery computer is caused to process the program comprising:

abstracting at least a part of the AV information;

generating abstraction information indicative of contents of the AV information; and

delivering the generated abstraction information together with the AV information having the contents indicated by the abstraction information.

31. An information recording medium recording an AV information retrieval program to be readable through a retrieving computer included in an AV information retrieving device for retrieving, by using retrieval key information, the AV information delivered together with the abstraction information through the AV information delivery device according to claim 29, wherein the retrieving computer is caused to process the program comprising:

acquiring the abstraction information and the AV

information which are delivered;
inputting the retrieval key information;
abstracting the retrieval key information inputted;
generating abstraction key information; and
retrieving the delivered abstraction information which
is similar to the generated abstraction key information.

32. The information recording medium recording the AV
information retrieval program to be readable through the
retrieving computer according to claim 31, wherein the retrieving
computer is further caused to process the program comprising:

outputting, as the AV information corresponding to the
retrieval key information, the AV information corresponding to
the abstraction information retrieved by the retrieving computer
functioning as the retrieving step.

33. The information recording medium recording the AV
information retrieval program to be readable through the
retrieving computer according to claim 31, the program further
comprising:

returning retrieval result information generated based
on a retrieval result in the retrieving computer functioning
as the retrieving section to the AV information delivery device.

34. The information recording medium recording the AV

information retrieval program to be readable through the retrieving computer according to claim 33, wherein the retrieval result information comprises:

the retrieval key information;

content identification data for specifying contents including at least the abstraction information set to be similar to the retrieval key information by the retrieving computer functioning as the retrieving section and the AV information corresponding to the abstraction information; and

at least one of address information and time information which indicate a portion similar to the retrieval key information in the contents.

35. The information recording medium recording the AV information retrieval program to be readable through the retrieving computer according to claim 33, the program further comprising a network retrieving section for retrieving network information present on a network which corresponds to the retrieval key information,

wherein the network information retrieved is included in the retrieval result information and returned to the AV information delivery device through the retrieving computer functioning as the return step.

36. An information recording medium recording the AV

information delivery program to be readable through the delivery computer, wherein the delivery computer is caused to process the program comprising:

storing the retrieval result information returned from the AV information retrieving device according to claim 33.

37. The information recording medium recording the AV information delivery program to be readable through the delivery computer according to claim 36, wherein the retrieval result information comprises:

the retrieval key information;

content identification data for specifying contents including at least the abstraction information set to be similar to the retrieval key information by the retrieving section and the AV information corresponding to the abstraction information; and

at least one of address information and time information which indicate a portion similar to the retrieval key information in the contents, and

the delivery computer functioning as the data base is caused to function to store the retrieval key information, the content identification data and at least one of the address information and the time information correspondingly to each other.

38. An information recording medium recording the AV information delivery program to be readable through the delivery computer, wherein the delivery computer is caused to process the program comprising:

storing the retrieval key information, the content identification data, at least one of the address information and the time information and the network information which are included in the retrieval result information returned from the AV information retrieving device according to claim 35 correspondingly to each other.

39. The information recording medium recording the AV information delivery program to be readable through the delivery computer according to claim 37, the program further comprising:

deciding a degree of correlation of the retrieval key information and the content identification data based on a majority principle intended for all the retrieval result information; and

storing only the retrieval result information having the high degree of correlation.

40. An information recording medium recording an AV information retrieval program to be readable through a retrieving computer in an AV information retrieving device for retrieving the AV information stored in the AV information delivery device

according to claim 36 by using data base retrieval information, wherein the retrieving computer is caused to process the program comprising:

inputting the data base retrieval information;

retrieving an inside of the data base by using the input database retrieval information and retrieving the AV information corresponding to the input data base retrieval information; and

outputting the retrieved AV information as the AV information corresponding to the data base retrieval information.